

**ABSTRACT FOR JP 92-08897**

-1- (WPAT)

ACCESSION NUMBER  
SECONDARY ACCESSION

84-097584/16  
C84-041552  
XRPX N84-072588

TITLE

Zinc electrode - comprises powders of zinc oxide and zinc alloyed with at least one of mercury, indium, lead

DERWENT CLASSES

A85 L03 M22 P53 X16

PATENT ASSIGNEE

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PRIORITY

82.09.01 82JP-153232

NUMBERS

2 patent(s) 1 country(s)

PUBLICATION DETAILS

JP59042775 A 84.03.09 \* (8416)4p  
JP92008897 B 92.02.18 (9211)3p

APPLICATION DETAILS

82JP-153232 82.09.01

SECONDARY INT'L. CLASS.

B22F-001/00 B22F-003/02 C22C-018/00  
H01M-004/42

ABSTRACT

JP59042775 A Electrode comprises, (1) Zn alloy powder composed of both at least 1 of Hg, In, Pb, Zn and metal Zn powder having particle dia. 1-6 micron and (2) zinc oxide powder having particle dia. 0.1-0.5 micron. Coarse crystallisation of cathode active agent in charge-discharge cycle is prevented, zinc electrode breakdown is suppressed and battery cycle life is improved. In an example, Zn metal powder placed in 3-5% Hg chloride soln. for 10 min., is washed with water, acetone and dried to give Hg-Zn alloy (Hg 3%) fine powder. Then ZnO powder 100 wt.%, 10 wt.% Hg-Zn alloy powder, 2 wt.% HgO powder, 5 wt.% PTFE dispersion (conc. 60%) + 50 wt.% water, were milled. Obtd. dispersion was pressed by a roller into 1.0 mm. thick paste sheet. The paste sheets were adhered on both surfaces of cathode collector to give 1.5 mm. zinc electrode. (1/2)